

# TRANBERG® THERMOSTAT

Tranberg ThermoConnect (TTC) | TTC/C Controller | TTC/CL Controller Limiter  
Zone 1, Zone 2 & Safe Area



The controller & controller limiter Thermostat is an electronic heattracing control unit featuring the benefits of local control and the capability for central monitoring. The controller & controller limiter unit can be used for single phase circuits up to 20

A and is approved for use in hazardous areas. The controller limiter is equipped with an IEC 61508-SIL 2 classified safety temperature limiter on board (NGC-20-CL-E). It measures the temperature with up to two RTD(s) connected to the unit. The Safety

temperature limiter has a dedicated temperature input. The controller & controller limiter unit is equipped with a RS-485 interface. Through this interface up to 247 units can be networked to one serial port of standard PC running Tranberg PlantConnect™ control and monitoring software.

## Application

- Hazardous areas
- Chemical and petrochemical industries
- Industrial plants (for frost protection or temperature maintenance)
- According to NORSOK requirements
- All areas where thermal processes need to be prevented from overheating (controller limiter only)

## Features and benefits

- Ready for Tranberg PlantConnect™ (Remote control and monitoring).
- Two RTD channels for temperature controller.
- High ingress protection. IP66.
- Manufactured in acid proof stainless steel (AISI 316L).
- Control Monitoring and alarm capabilities.
- ° The controller & controller limiter offers alarms for high temperature, high and low current, ground fault, current and voltage. The trip and warning level of the ground-fault current is user configurable and can be used as a warning and to isolate circuits. Note that certain alarms or information is only available through the serial port.
- Automated heat-tracing system check.
- ° To ensure system integrity the Raychem NGC-20 control unit can be configured to periodically check dormant heating cables for faults. As a consequence maintenance is systematically informed about the status of the heat-tracing system and unexpected and usually expensive downtime of important pipelines can be reduced

## Approvals and certificates

PTB 09ATEX1109 (8150/5)\*



## Technical Data

Type designation:	Stahl 8150/5, part number 81502355 (controller) / 81502356 (Controller and limiter)
Ex-protection:	Ex II 2 (I) G Ex eb ia mb [ia Ga] IIC T5 Gb
Material:	AISI 316L / EN 1.4404
Protection:	IP66
Voltage range:	100-254V AC +/-10%, 50/60Hz
Maximum load:	20A
Max. wire termination (with end sleeve):	Power in: Max. 6mm <sup>2</sup> Heating cable (power out): Max. 4mm <sup>2</sup> Earth terminals: Max. 10mm <sup>2</sup>
Tamb (Operation):	-40 to +40°C

\* The controller limiter meets the requirements of EN 60079-30-1. For applications installed in a hazardous area this means that the protective device shall de-energize the system to prevent exceeding the maximum permissible surface temperature. In case of an error by, or damage to the sensor, the heating system shall be de-energized before replacing the defective equipment. The protective device operates independently from the temperature controller.

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THE STRONGEST LINK.

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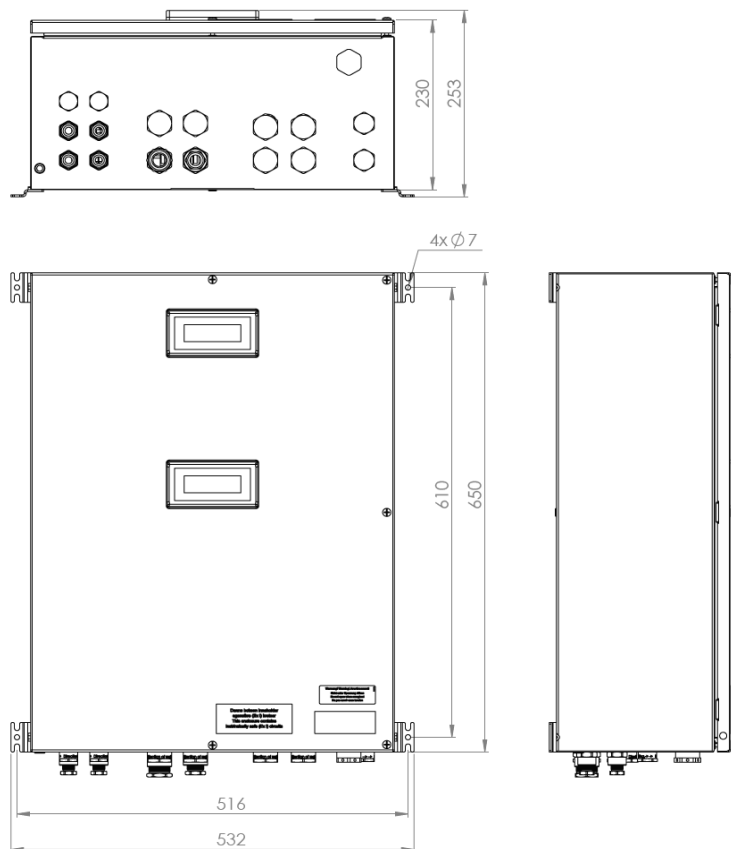
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Description	Weight	Part No.
Tranberg ThermoConnect - 8150-TTC/C/DbI - Controller - 20A 2 pol	31 kg	81502355
Tranberg ThermoConnect - 8150-TTC/CL/DbI - Controller/Limiter - 20A 2 pol	31 kg	81502356

Description Accessories	Part No.
A vast selection of accessories are available at <a href="http://www.stahl-tranberg.com">www.stahl-tranberg.com</a> . Including connection kits, pipe transition units, installation equipment, flexible conduits, adaptors, cable glands etc.	
Temp-sensor PT100 3-wires (Ø6x300mm element), 3 meter silicone cable	5023 9078
Temp-sensor PT100 3-wires (Ø6x300mm element), 10 meter silicone cable	5023 9086
Temp-sensor PT100 3-wires (Ø6x300mm element), 25 meter silicone cable	5023 9087
Connection kit for temperature element PT100, Wall mounted	9178 045

## Dimensions



000A115446



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